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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/894,034	06/28/2001	Sam-Chul Ha	P/923-340	5497
2352	7590 08/09/2002			
	K FABER GERB & S	0002 B & SOFFEN	EXAMINER	
NEW YORK,	E OF THE AMERICAS NY 100368403	5	DANG,	ТНІ D
			ART UNIT	PAPER NUMBER
			1763	3
DATE MAILED: 08/09/2002				

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	
	•	Application No.	Applicant(s)
	Office Action Summary	09/894,034	HA ET AL.
	Onice Action Summary	Examiner	Art Unit
	The MAILING DATE of this country is	Thi Dang	1763
P riod fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the c	orrespondence address
THE I - Exterester after - If the I - If NC - Failur - Any r	ORTENED STATUTORY PERIOD FOR REPL'MAILING DATE OF THIS COMMUNICATION.  nations of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication.  period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ad patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from Cause the application to become ABANDONE.	nely filed s will be considered timely. the mailing date of this communication.
1)	Responsive to communication(s) filed on	<u> </u>	
2a)□	This action is <b>FINAL</b> . 2b)⊠ Th	is action is non-final.	
3)□ Dispositi	Since this application is in condition for allowardlosed in accordance with the practice under on of Claims	ince except for formal matters, pr Ex parte Quayle, 1935 C.D. 11, 4	osecution as to the merits is 53 O.G. 213.
4)🖂	Claim(s) 1-27 is/are pending in the application		
	4a) Of the above claim(s) is/are withdraw	vn from consideration.	
5)🖂	Claim(s) 24-27 is/are allowed.		
6)⊠	Claim(s) 1-4,8,9,14,15,20 and 21 is/are rejecte	d.	
7)🖂	Claim(s) <u>5-7,10-13,16-19,22 and 23</u> is/are obje	cted to.	
8)□	Claim(s) are subject to restriction and/or	election requirement.	
Applicati	on Papers		
9) 🗌 🗆	Γhe specification is objected to by the Examiner		
10) 🔲 7	「he drawing(s) filed on is/are: a)☐ accep	ted or b)⊡ objected to by the Exan	niner.
	Applicant may not request that any objection to the		• •
11) 🗌 🛭	he proposed drawing correction filed on	is: a) ☐ approved b) ☐ disappro	ved by the Examiner.
_	If approved, corrected drawings are required in rep	·	
	he oath or declaration is objected to by the Exa	aminer.	
Priority u	nder 35 U.S.C. §§ 119 and 120		
13)⊠	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f).
a)[	☑ All b)☐ Some * c)☐ None of:		
	<ol> <li>Certified copies of the priority documents</li> </ol>	have been received.	
;	<ol><li>Certified copies of the priority documents</li></ol>	have been received in Application	n No
	<ol> <li>Copies of the certified copies of the priori application from the International Bursee the attached detailed Office action for a list of the certification.</li> </ol>	eau (PCT Rule 17.2(a)).	<del>-</del>
	cknowledgment is made of a claim for domestic		
	☐ The translation of the foreign language prov		· · · · · · · · · · · · · · · · · · ·
15) 🗌 A	cknowledgment is made of a claim for domestic	priority under 35 U.S.C. §§ 120	and/or 121.
Attachment(			
2) Notice 3) Inform	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal Pa	PTO-413) Paper No(s) atent Application (PTO-152)
J.S. Patent and Tra PTO-326 (Rev		on Summary	Part of Paper No. 3

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#### Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-4 and 21 are rejected under 35 U.S.C. 102(b) as being anticipated by *Kashiwaya* et al.

Kashiwaya discloses an apparatus for depositing a film on a web-like substrate. The apparatus includes a plasma chamber (30) in which the substrate is moved vertically, a delivery (or unwinding) chamber, and a take-up (or winding) chamber (31b) (col. 5, lines 8-28; Fig. 1). There is a plurality of electrodes (61) located in the plasma chamber (30) for generating the plasma. The apparatus as claimed does not define structurally over that of Kashiwaya.

### Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 8 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over *Kashiwaya* et al.

Kashiwaya does not disclose that the plasma chamber (30) has a door at one side. It would have been obvious, however, to have a side door for this plasma chamber because this is conventional for gaining access to the equipment for repair or part replacement.

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apparatus."

5. Claims 14, 15 and 20 are rejected under 35 U.S.C. 102(b) as being anticipated by *Sando* et al.

Sando discloses a reactor for treating a cloth continuously using plasma. A plurality of partition walls (8) divide the interior of the reactors into a plurality of passages, each vertical passage is provided with a pair of electrodes (12, 12') (col. 2, lines 16-39; col. 3, lines 8-14; Fig. 2). The space between every two adjacent partition walls could be considered a vertical chamber. Sando's reactor meets the structural limitations of the claimed "continuous processing"

#### Allowable Subject Matter

- 6. Claims 24-27 are allowed.
- 7. Claims 5-7, 10-13, 16-19, 22, 23 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Ovshinsky is cited to show a prior art vertical processor for continuous deposition by plasma.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thi Dang whose telephone number is (703) 308-1973. The examiner can normally be reached on Monday to Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory Mills can be reached on (703) 308-1633. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9310 for regular communications and (703) 872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

THI DARG

**PEOUP 1700**